

## RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10|537,676  
Source: PT  
Date Processed by STIC: 6-21-05

# ***ENTERED***

**CRF Errors Edited by the STIC Systems  
Branch**

Serial Number:

10/537,676

CRF Edit Date:

6/21/05

Edited by:

ICE

\_\_\_ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

\_\_\_ Corrected the SEQ ID NO. Sequence numbers edited were:

\_\_\_\_\_

\_\_\_ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

\_\_\_\_\_

☒ Deleted: ☒ invalid beginning/end-of-file text ; \_\_\_ page numbers

\_\_\_ Inserted mandatory headings/numeric identifiers, specifically:

\_\_\_\_\_

\_\_\_ Moved responses to same line as heading/numeric identifier, specifically:

\_\_\_\_\_

\_\_\_ Other:

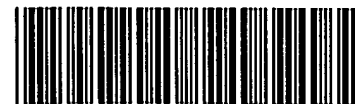
\_\_\_\_\_

\_\_\_\_\_

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Revised 09/09/2003

Raw Sequence Listing before editing,  
for reference only



PCT

## RAW SEQUENCE LISTING

DATE: 06/21/2005

PATENT APPLICATION: US/10/537,676

TIME: 13:38:24

Input Set : A:\pto.kd.txt

Output Set: N:\CRF4\06212005\J537676.raw

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3 <110> APPLICANT: Hinuma, Shuji
4     MARUYAMA, Minoru
5     FUJII, Ryo
7 <120> TITLE OF INVENTION: Novel Use of EDG Receptor
9 <130> FILE REFERENCE: 3127US0P
C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/537,676
C--> 11 <141> CURRENT FILING DATE: 2005-06-06
11 <150> PRIOR APPLICATION NUMBER: PCT/JP2003/015836
12 <151> PRIOR FILING DATE: 2003-12-11
14 <150> PRIOR APPLICATION NUMBER: JP 2002-361415
15 <151> PRIOR FILING DATE: 2002-12-12
17 <160> NUMBER OF SEQ ID NOS: 45
19 <210> SEQ ID NO: 1
20 <211> LENGTH: 364
21 <212> TYPE: PRT
22 <213> ORGANISM: human
24 <400> SEQUENCE: 1
25 Met Ala Ala Ile Ser Thr Ser Ile Pro Val Ile Ser Gln Pro Gln Phe
26           5                      10                      15
27 Thr Ala Met Asn Glu Pro Gln Cys Phe Tyr Asn Glu Ser Ile Ala Phe
28           20                      25                      30
29 Phe Tyr Asn Arg Ser Gly Lys His Leu Ala Thr Glu Trp Asn Thr Val
30           35                      40                      45
31 Ser Lys Leu Val Met Gly Leu Gly Ile Thr Val Cys Ile Phe Ile Met
32           50                      55                      60
33 Leu Ala Asn Leu Leu Val Met Val Ala Ile Tyr Val Asn Arg Arg Phe
34 65           70                      75                      80
35 His Phe Pro Ile Tyr Tyr Leu Met Ala Asn Leu Ala Ala Ala Asp Phe
36           85                      90                      95
37 Phe Ala Gly Leu Ala Tyr Phe Tyr Leu Met Phe Asn Thr Gly Pro Asn
38           100                     105                     110
39 Thr Arg Arg Leu Thr Val Ser Thr Trp Leu Leu Arg Gln Gly Leu Ile
40           115                     120                     125
41 Asp Thr Ser Leu Thr Ala Ser Val Ala Asn Leu Leu Ala Ile Ala Ile
42           130                     135                     140
43 Glu Arg His Ile Thr Val Phe Arg Met Gln Leu His Thr Arg Met Ser
44 145           150                     155                     160
45 Asn Arg Arg Val Val Val Val Ile Val Val Ile Trp Thr Met Ala Ile
46           165                     170                     175
47 Val Met Gly Ala Ile Pro Ser Val Gly Trp Asn Cys Ile Cys Asp Ile
48           180                     185                     190
49 Glu Asn Cys Ser Asn Met Ala Pro Leu Tyr Ser Asp Ser Tyr Leu Val
50           195                     200                     205

```

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51 Phe Trp Ala Ile Phe Asn Leu Val Thr Phe Val Val Met Val Val Leu
52      210                      215                      220
53 Tyr Ala His Ile Phe Gly Tyr Val Arg Gln Arg Thr Met Arg Met Ser
54 225                      230                      235                      240
55 Arg His Ser Ser Gly Pro Arg Arg Asn Arg Asp Thr Met Met Ser Leu
56                      245                      250                      255
57 Leu Lys Thr Val Val Ile Val Leu Gly Ala Phe Ile Ile Cys Trp Thr
58                      260                      265                      270
59 Pro Gly Leu Val Leu Leu Leu Leu Asp Val Cys Cys Pro Gln Cys Asp
60                      275                      280                      285
61 Val Leu Ala Tyr Glu Lys Phe Phe Leu Leu Leu Ala Glu Phe Asn Ser
62                      290                      295                      300
63 Ala Met Asn Pro Ile Ile Tyr Ser Tyr Arg Asp Lys Glu Met Ser Ala
64 305                      310                      315                      320
65 Thr Phe Arg Gln Ile Leu Cys Cys Gln Arg Ser Glu Asn Pro Thr Gly
66                      325                      330                      335
67 Pro Thr Glu Gly Ser Asp Arg Ser Ala Ser Ser Leu Asn His Thr Ile
68                      340                      345                      350
69 Leu Ala Gly Val His Ser Asn Asp His Ser Val Val
70                      355                      360
72 <210> SEQ ID NO: 2
73 <211> LENGTH: 1092
74 <212> TYPE: DNA
75 <213> ORGANISM: human
77 <400> SEQUENCE: 2
78 atggctgccca tctctacttc catccctgta atttcacagc cccagttcac agccatgaat      60
79 gaaccacagt gcttctacaa cgagtcattt gccttctttt ataaccgaag tggaaagcat      120
80 cttgccacag aatggaacac agtcagcaag ctggtgatgg gacttggaa cactgtttgt      180
81 atcttcatca tggtggccaa cctattggtc atggtggcaa tctatgtcaa ccgccgcttc      240
82 cattttccta tttattacct aatggcta atggtgctg cagacttctt tgctgggttg      300
83 gctactttct atctcatgtt caacacagga cccaatactc ggagactgac tgtagcaca      360
84 tggctcctgc gtcagggcct cattgacacc agcctgacgg catctgtggc caacttactg      420
85 gctattgcaa tcgagaggca cattacggtt ttccgcatgc agctccacac acggatgagc      480
86 aaccggcggg tagtggtggt cattgtggtc atctggacta tggccatcgt tatgggtgct      540
87 ataccagtg tgggctggaa ctgtatctgt gatattgaaa attgttccaa catggcaccc      600
88 ctctacagtg actcttactt agtcttctgg gccattttca acttggtgac ctttgtggta      660
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90 cggcatagtt ctggaccccg gcggaatcgg gataccatga tgagtcttct gaagactgtg      780
91 gtcattgtgc ttggggcctt tatcatctgc tggactcctg gattggtttt gttacttcta      840
92 gacgtgtgct gtccacagtg cgacgtgctg gcctatgaga aattcttctt tctccttgct      900
93 gaattcaact ctgccatgaa ccccatcatt tactcctacc gcgacaaaga aatgagcgcc      960
94 acctttaggc agatcctctg ctgccagcgc agtgagaacc ccaccggccc cacagaaggc      1020
95 tcagaccgct cggcttcctc cctcaaccac accatcttgg ctggagtcca cagcaatgac      1080
96 cactctgtgg tt                                     1092
98 <210> SEQ ID NO: 3
99 <211> LENGTH: 364
100 <212> TYPE: PRT
101 <213> ORGANISM: Rat
103 <400> SEQUENCE: 3

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```

104 Met Ala Ala Ala Ser Thr Ser Ser Pro Val Ile Ser Gln Pro Gln Phe
105           5           10           15
106 Thr Ala Met Asn Glu Gln Gln Cys Phe Tyr Asn Glu Ser Ile Ala Phe
107           20           25           30
108 Phe Tyr Asn Arg Ser Gly Lys Tyr Leu Ala Thr Glu Trp Asn Thr Val
109           35           40           45
110 Ser Lys Leu Val Met Gly Leu Gly Ile Thr Val Cys Val Phe Ile Met
111           50           55           60
112 Leu Ala Asn Leu Leu Val Met Val Ala Ile Tyr Val Asn Arg Arg Phe
113           65           70           75           80
114 His Phe Pro Ile Tyr Tyr Leu Met Ala Asn Leu Ala Ala Ala Asp Phe
115           85           90           95
116 Phe Ala Gly Leu Ala Tyr Phe Tyr Leu Met Phe Asn Thr Gly Pro Asn
117           100          105          110
118 Thr Arg Arg Leu Thr Val Ser Thr Trp Leu Leu Arg Gln Gly Leu Ile
119           115          120          125
120 Asp Thr Ser Leu Thr Ala Ser Val Ala Asn Leu Leu Ala Ile Ala Ile
121           130          135          140
122 Glu Arg His Ile Thr Val Phe Arg Met Gln Leu His Thr Arg Met Ser
123           145          150          155          160
124 Asn Arg Arg Val Val Val Val Ile Val Val Ile Trp Thr Met Ala Ile
125           165          170          175
126 Val Met Gly Ala Ile Pro Ser Val Gly Trp Asn Cys Ile Cys Asp Ile
127           180          185          190
128 Asp His Cys Ser Asn Met Ala Pro Leu Tyr Ser Asp Ser Tyr Leu Val
129           195          200          205
130 Phe Trp Ala Ile Phe Asn Leu Val Thr Phe Val Val Met Val Val Leu
131           210          215          220
132 Tyr Ala His Ile Phe Gly Tyr Val Arg Gln Arg Thr Met Arg Met Ser
133           225          230          235          240
134 Arg His Ser Ser Gly Pro Arg Arg Asn Arg Asp Thr Met Met Ser Leu
135           245          250          255
136 Leu Lys Thr Val Val Ile Val Leu Gly Ala Phe Ile Val Cys Trp Thr
137           260          265          270
138 Pro Gly Leu Val Leu Leu Leu Leu Asp Val Cys Cys Pro Gln Cys Asp
139           275          280          285
140 Val Leu Ala Tyr Glu Lys Phe Phe Leu Leu Leu Ala Glu Phe Asn Ser
141           290          295          300
142 Ala Met Asn Pro Ile Ile Tyr Ser Tyr Arg Asp Lys Glu Met Ser Ala
143           305          310          315          320
144 Thr Phe Arg Gln Ile Leu Cys Cys Gln Arg Asn Glu Asn Pro Asn Gly
145           325          330          335
146 Pro Thr Glu Gly Ser Asp Arg Ser Ala Ser Ser Leu Asn His Thr Ile
147           340          345          350
148 Leu Ala Gly Val His Ser Asn Asp His Ser Val Val
149           355          360
151 <210> SEQ ID NO: 4
152 <211> LENGTH: 1092
153 <212> TYPE: DNA

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154 <213> ORGANISM: Rat
156 <400> SEQUENCE: 4
157 atggcagctg cctctacttc cagccctgtg atttcacagc cccagttcac agccatgaac 60
158 gaacaacagt gcttctacaa cgagtctatc gccttcttct ataaccggag tggaaagtat 120
159 ctagccacag aatggaacac tgtgagcaag ctggtgatgg gactgggcat cactgtctgc 180
160 gtgttcatca tgctggccaa tctactggtc atggtggcaa ttacgtcaa ccgccgttc 240
161 catttcctta ttattactt gatggccaac ctggtgctg cagacttctt cgctggactg 300
162 gcctacttct acctgatgtt caacacggga cctaataccc ggagactgac cgtgagcaca 360
163 tggcttctcc ggcagggcct catcgacacc agcctgacgg cttctgtggc caacctgctg 420
164 gccattgcca tcgagaggca catcacagtt ttccgaatgc agctccatac acgaatgagc 480
165 aaccgacgtg tgggtggtgg gattgtagtc atctggacta tggccattgt gatgggtgcc 540
166 ataccacagt tgggtggtgg ctgcatctgt gatatcgatc attgttccaa catggcgccc 600
167 ctctacagtg actcctactt agtcttctgg gccattttca acctggtgac ctttgtggtc 660
168 atggtggttc tctacgtca catctttggc tatgttcgcc agaggactat gagaatgtcc 720
169 cggcatagtt ctggaccag gaggaatcgg gacaccatga tgagccttct gaagactgtg 780
170 gtcattgtgc tgggtgcctt tattgtctgc tggactccgg gattggtctt gctactgctc 840
171 gatgtgtgtt gcccgcagtg cgtgtcctg gcctatgaga agttcttct cctcctggcc 900
172 gagttcaact ctgctatgaa ccccatcatc tactcctacc gcgacaaaga gatgagcgcc 960
173 accttcaggc agatcctgtg ttgccagcgc aacgagaacc ccaacggccc cacggaaggc 1020
174 tctgaccgct cggcctcctc cctcaaccac actattctgg ctggagttca cagcaatgac 1080
175 cactctgtgg tt 1092
177 <210> SEQ ID NO: 5
178 <211> LENGTH: 378
179 <212> TYPE: PRT
180 <213> ORGANISM: human
182 <400> SEQUENCE: 5
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184 5 10 15
185 Thr Leu Arg Glu His Tyr Gln Tyr Val Gly Lys Leu Ala Gly Arg Leu
186 20 25 30
187 Lys Glu Ala Ser Glu Gly Ser Thr Leu Thr Thr Val Leu Phe Leu Val
188 35 40 45
189 Ile Cys Ser Phe Ile Val Leu Glu Asn Leu Met Val Leu Ile Ala Ile
190 50 55 60
191 Trp Lys Asn Asn Lys Phe His Asn Arg Met Tyr Phe Phe Ile Gly Asn
192 65 70 75 80
193 Leu Ala Leu Cys Asp Leu Leu Ala Gly Ile Ala Tyr Lys Val Asn Ile
194 85 90 95
195 Leu Met Ser Gly Lys Lys Thr Phe Ser Leu Ser Pro Thr Val Trp Phe
196 100 105 110
197 Leu Arg Glu Gly Ser Met Phe Val Ala Leu Gly Ala Ser Thr Cys Ser
198 115 120 125
199 Leu Leu Ala Ile Ala Ile Glu Arg His Leu Thr Met Ile Lys Met Arg
200 130 135 140
201 Pro Tyr Asp Ala Asn Lys Arg His Arg Val Phe Leu Leu Ile Gly Met
202 145 150 155 160
203 Cys Trp Leu Ile Ala Phe Thr Leu Gly Ala Leu Pro Ile Leu Gly Trp
204 165 170 175
205 Asn Cys Leu His Asn Leu Pro Asp Cys Ser Thr Ile Leu Pro Leu Tyr

```

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```

206          180          185          190
207 Ser Lys Lys Tyr Ile Ala Phe Cys Ile Ser Ile Phe Thr Ala Ile Leu
208          195          200          205
209 Val Thr Ile Val Ile Leu Tyr Ala Arg Ile Tyr Phe Leu Val Lys Ser
210          210          215          220
211 Ser Ser Arg Lys Val Ala Asn His Asn Asn Ser Glu Arg Ser Met Ala
212 225          230          235          240
213 Leu Leu Arg Thr Val Val Ile Val Val Ser Val Phe Ile Ala Cys Trp
214          245          250          255
215 Ser Pro Leu Phe Ile Leu Phe Leu Ile Asp Val Ala Cys Arg Val Gln
216          260          265          270
217 Ala Cys Pro Ile Leu Phe Lys Ala Gln Trp Phe Ile Val Leu Ala Val
218          275          280          285
219 Leu Asn Ser Ala Met Asn Pro Val Ile Tyr Thr Leu Ala Ser Lys Glu
220          290          295          300
221 Met Arg Arg Ala Phe Phe Arg Leu Val Cys Asn Cys Leu Val Arg Gly
222 305          310          315          320
223 Arg Gly Ala Arg Ala Ser Pro Ile Gln Pro Ala Leu Asp Pro Ser Arg
224          325          330          335
225 Ser Lys Ser Ser Ser Ser Asn Asn Ser Ser His Ser Pro Lys Val Lys
226          340          345          350
227 Glu Asp Leu Pro His Thr Asp Pro Ser Ser Cys Ile Met Asp Lys Asn
228          355          360          365
229 Ala Ala Leu Gln Asn Gly Ile Phe Cys Asn
230          370          375
232 <210> SEQ ID NO: 6
233 <211> LENGTH: 1134
234 <212> TYPE: DNA
235 <213> ORGANISM: human
237 <400> SEQUENCE: 6
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239 cattaccagt acgtggggaa gttggcgggc aggcctgaagg aggcctccga gggcagcacg 120
240 ctaccaccg tgctcttctt ggtcatctgc agcttcatcg tcttgagaa cctgatgggt 180
241 ttgattgcca tctggaaaaa caataaattt cacaaccgca tgtacttttt cattggcaac 240
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243 aagaagacgt tcagcctgtc tcccacggtc tggttcctca gggagggcag tatgttcgtg 360
244 gcccttgggg cgtccacctg cagcttactg gccatcgcca tcgagcggca cttgacaatg 420
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250 ctgctgcgga ccgtggtgat tgtggtgagc gtgttcacgc cctgctggtc cccactcttc 780
251 atcctcttcc tcattgatgt ggctgcagg gtgcaggcgt gccccatcct cttcaaggct 840
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253 gccagcaagg agatgcggcg ggccttcttc cgtctggtct gcaactgcct ggtcagggga 960
254 cggggggccc gcgcctcacc catccagcct gcgctcgacc caagcagaag taaatcaagc 1020
255 agcagcaaca atagcagcca ctctccgaag gtcaaggaag acctgcccca cacagacccc 1080
256 tcactctgca tcatggacaa gaacgcagca cttcagaatg ggatcttctg caac 1134

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**VERIFICATION SUMMARY**

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DATE: 06/21/2005

TIME: 13:38:25

Input Set : A:\pto.kd.txt

Output Set: N:\CRF4\06212005\J537676.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application No

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date